

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085657 A1

(51) International Patent Classification⁷: **F16B 5/02**,
12/18, 12/32, 37/00, A47B 47/04, B25B 5/10, E04B 1/61

(21) International Application Number:
PCT/AU2005/000282

(22) International Filing Date: 28 February 2005 (28.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004901112 3 March 2004 (03.03.2004) AU
2004903527 28 June 2004 (28.06.2004) AU

(71) Applicant (for all designated States except US): **RAPID-
JOINT PTY LTD** [AU/AU]; Factory 17 Grace Avenue,
Warrnambool, VIC 3280 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DORNEY, Jarrod,**

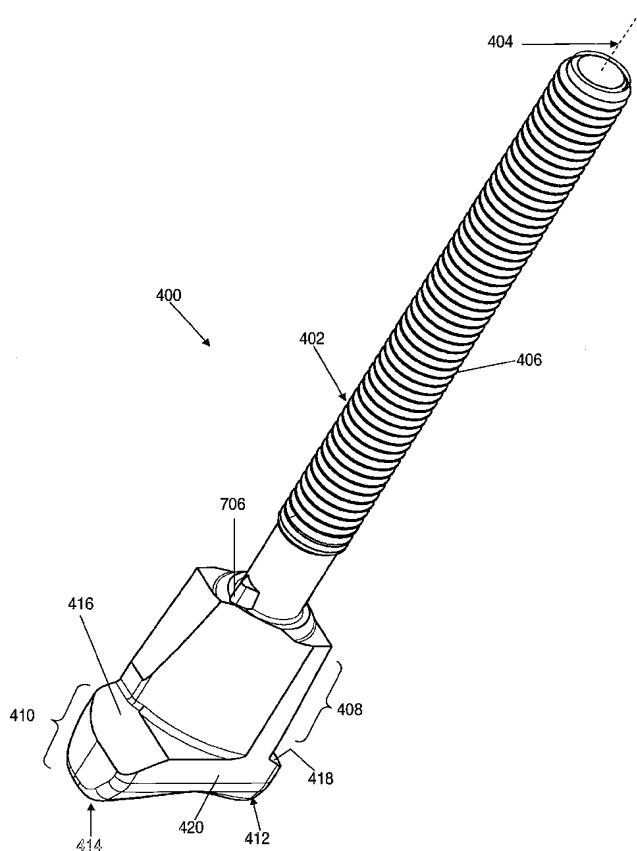
Leigh [AU/AU]; 2 Ferrier Drive, Warrnambool, VIC 3280
(AU). **VAN DE LOO, Paul** [AU/AU]; Lot 26, Moores
Road, Norton Summit, S.A. 5136 (AU). **GRANSBURY,
Kenneth** [AU/AU]; 14 Gurrs Road, Kensington Park, S.A.
5068 (AU).

(74) Agent: **WATERMARK PATENT & TRADEMARK
ATTORNEYS**; 290 Burwood Road, Hawthorn, VIC 3122
(AU).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

[Continued on next page]

(54) Title: IMPROVEMENTS IN CLAMPING ASSEMBLIES



(57) Abstract: A self-aligning coupling device (400) for
installation in channel having an open end and a pair of
substantially parallel side walls. The device includes an
elongate connecting portion (402) having a longitudinal
axis (404), a channel abutment portion (408), and at
least one laterally projecting lug (412, 414). In use, the coupling
device (400) is installed in the channel with the channel
abutment portion (408) located at least partially within the
channel and the laterally projecting lug (412, 414) located
outside the open end of the channel. The channel abutment
portion (408) is formed such that when aligned in a first
angular position within the channel it abuts the side walls
of the channel to prevent rotation of the device in a first
rotational direction about said longitudinal axis, while
allowing rotation in a second, opposed rotational direction.

WO 2005/085657 A1



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*